

SUPPLEMENTARY DATA

Supplementary Table 1. Anthropometric, metabolic, body composition, and puberty characteristics of *verified* GDM offspring and controls at age 9-16 years.

	Crude measurements		Age and sex adjusted estimates		
	GDM offspring	Control offspring	P ^a	Mean difference or % difference* (95% CI)	
				P ^b	
Anthropometric characteristics	N=332	N=597			
Age (years)	12.0 (1.5)	12.8 (1.5)	<0.001		
Sex (boys)	168 (50.8)	301 (50.4)	0.92		
Weight (kg)	48.6 (13.3)	47.2 (12.0)	0.09	5.44 (4.1;6.8)	<0.001
Height (cm)	156.1 (11.3)	159.5 (11.4)	<0.001	1.0 (-0.01;2.4)	0.05
BMI (kg/m ²)*	19.7 (3.9)	18.3 (2.8)	<0.001	10% (8-13%)	<0.001
Waist (cm)	73.9 (11.2)	70.0 (8.4)	<0.001	5.9 (4.7;7.1)	<0.001
Hip circumference (cm)	84.1 (10.0)	82.7 (9.3)	0.03	4.2 (3.2;5.3)	<0.001
Systolic blood pressure (mmHg)	110.0 (9.1)	109.6 (8.6)	0.48	1.5 (0.4;2.7)	0.01
Diastolic blood pressure (mmHg)	63.0 (6.0)	62.8 (6.1)	0.62	0.18 (-0.7;1.1)	0.68
Heart rate (BPM)	70.0 (9.7)	68.3 (10.0)	0.01	0.83 (-0.52;2.18)	0.23
Metabolic characteristics	N=332	N=559			
Whole blood fasting glucose (mmol/l)*	4.7 (0.7)	4.6 (0.7)	0.002	3% (1-5%)	0.0006
Fasting plasma glucose (mmol/l)*	5.0 (0.6)	4.8 (0.6)	<0.001	5% (3-6%)	<0.001
Fasting insulin (pmol/l)*	80.5 (42.5)	67.4 (30.1)	<0.001	23% (15-32%)	<0.001
Fasting C-peptide (pmol/l)	609 (211)	575 (188)	0.02	68 (41;94)	<0.001
HOMA-IR*	2.6 (1.5)	2.1 (1.0)	<0.001	28% (19-38%)	<0.001
Triglycerides (mmol/l)*	0.83 (0.39)	0.78 (0.35)	0.11	7% (2-13%)	0.01
HDL cholesterol (mmol/l)	1.5 (0.4)	1.6 (0.4)	0.03	-0.1 (-0.15;-0.04)	0.0007
LDL cholesterol (mmol/l)	2.4 (0.7)	2.3 (0.6)	0.03	0.07 (-0.02;0.16)	0.15
Total cholesterol (mmol/l)	4.3 (0.7)	4.2 (0.7)	0.18	0.02 (-0.1;0.1)	0.69
Body composition measured by DXA	N=116	N=446			
Total fat %	32.5 (8.1)	27.0 (7.0)	<0.001	5.0 (3.5;6.5)	<0.001
Total lean mass %	65.0 (7.6)	70.1 (6.5)	<0.001	-4.63 (-6.0;-3.2)	<0.001
Total android tissue % fat*	29.1 (13.1)	21.5 (10.1)	<0.001	34% (21-48)	<0.001
Total gynoid tissue % fat	36.6 (7.9)	31.2 (7.8)	<0.001	4.3 (2.8;5.9)	<0.001
Fat distribution (android/gynoid ratio)	0.76 (0.22)	0.66 (0.18)	<0.001	0.13 (0.08;0.17)	<0.001
Total bone mass density (mg/cm ²)	0.93 (0.01)	0.98 (0.12)	<0.001	0.05 (0.008;0.05)	0.007
Puberty status	N=108-149	N=176-256 [□]			
Girls breast stage (n yes ≥B2, %)	82 (55.0%)	168 (66.1%)	0.03	1.7 (0.9;3.1)	0.09
Girls pubic hair (n yes ≥ PH2, %)	61 (43.9%)	133 (56.1%)	0.02	1.6 (0.9;2.9)	0.15
Boys testis size (n yes ≥ 4 ml, %)	79 (73.1%)	156 (85.7%)	0.009	0.83 (0.4;1.7)	0.60
Boys pubic hair (n yes ≥ PH2, %)	22 (19.0%)	60 (29.6%)	0.04	1.5 (0.7;3.2)	0.29
Boys genital stage (n yes ≥ G2, %)	39 (34.8%)	87 (44.2%)	0.11	1.5 (0.8;2.8)	0.23

For the crude estimate data are presented as mean (SD) or median* (IQR) for normally and non-normally* distributed variables, respectively.

Android tissue % fat: Located in the abdominal area

Gynoid tissue fat %: Located around the hips

P-values calculated using Student's T-test, Kruskal Wallis test, or Chi-square tests.

□ Values are n (%) and adjusted estimates are odds ratios (95% CI) and are only adjusted for age.

P^b: age and sex adjusted measurements comparing GDM to control offspring